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**COMMENTS:**

Serial No. 09/583,882

**ABSTRACT OF THE DISCLOSURE (marked-up)**

~~In a~~A cryptographic method and equipment ~~and a decrypting method and~~  
equipment according to the invention, a cryptographic key ~~the by generating an~~ auxiliary  
code ~~depending upon~~based on a randomly determined numeric key and including the  
result of encryption ~~is included together with the a~~ result of encryption into a cryptogram.  
~~On~~Upon ~~decrypting~~ decryption, ~~a the~~ cryptographic key is restored by using the numeric  
key restored according to the entire cryptogram ~~and is utilized in the decryption~~. On the  
other hand, ~~in another~~ A cryptographic method and equipment ~~and another decrypting~~  
~~method and equipment according to the invention,~~ scrambles and encrypts ~~on encrypting,~~  
physical characteristic information ~~is scrambled and then encrypted~~. ~~On this encryption,~~  
~~on the contrary, and descrambles, the a~~ result of a decryption is descrambled, thereby. In  
~~these cryptographic method and equipment, together with decryption method and~~  
equipment, enabling any small alteration ~~made onto the a~~ cryptogram to be detected  
because even a minor alteration thereto causes a serious damage ~~changes on the result of~~  
the decryption. ~~So, by applying these techniques to sending and receiving the physical~~  
~~characteristic information, their safety can be improved~~. On the other hand, ~~in a~~A remote  
identification system ~~according to the invention, by encrypting~~ encrypts the physical  
characteristic information ~~by using a password as a cryptographic key, because of the and~~  
fluctuation of the physical characteristic information, authenticating information represented  
as a different bit pattern at each identifying processing ~~can be is~~ generated and sent to a  
transmission medium. ~~So, by examining the equivalence between the result of decryption~~  
~~of the authenticating information and the registered reference information while considering~~  
~~the aforementioned fluctuation, the person can be reliably identified.~~

Serial No. 09/583,882

**ABSTRACT OF THE DISCLOSURE**

A cryptographic method and equipment decrypting a cryptographic key by generating an auxiliary code based on a randomly determined numeric key and including a result of encryption into a cryptogram. Upon decryption, the cryptographic key is restored using the numeric key restored according to the entire cryptogram. A cryptographic method and equipment scrambles and encrypts physical characteristic information, and descrambles a result of a decryption, thereby enabling any alteration to a cryptogram to be detected because even a minor alteration thereto changes the result of the decryption. A remote identification system encrypts physical characteristic information using a password as a cryptographic key, and fluctuation of the physical characteristic information, authenticating information represented as a different bit pattern at each identifying processing is generated and sent to a transmission medium.